

Title (en)
METHOD FOR DETECTING ABNORMALITIES IN A CRYPTOGRAPHIC CIRCUIT PROTECTED BY DIFFERENTIAL LOGIC, AND CIRCUIT FOR IMPLEMENTING SAID METHOD

Title (de)
VERFAHREN FÜR DEN NACHWEIS VON ANOMALIEN IN EINER DURCH DIFFERENZIELLE LOGIK GESCHÜTZTEN KRYPTOGRAFISCHEN SCHALTUNG UND SCHALTUNG ZUR UMSETZUNG DIESES VERFAHRENS

Title (fr)
PROCEDE DE DETECTION D'ANOMALIES DANS UN CIRCUIT DE CRYPTOGRAPHIE PROTEGE PAR LOGIQUE DIFFERENTIELLE ET CIRCUIT METTANT EN OEUVRE UN TEL PROCEDE

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Abstract (en)
[origin: WO2010018071A1] The invention relates to a method for detecting abnormalities in a circuit protected by differential logic and processing logic variables represented by a pair of components (at, af), a first network of cells (T) carrying out logic functions on the first component of said pairs, a second network of dual cells (F) operating as a complementary logic on the second component, the logic functions being carried out by each pair of cells (T, F) in a preload phase (21) placing the variables in a known state at the cell input, followed by an evaluation phase (22) in which a calculation is carried out by the cells, wherein said method is characterised in that an abnormality is detected by at least one inconsistency state. The invention also relates to a circuit protected by differential logic, comprising means for testing the consistency of the two components of the logic variables during the preload or evaluation phases at the monitored nodes of the circuit.

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